

**ArcelorMittal Burns Harbor, LLC.**  
Flat Carbon Steel



**ArcelorMittal**

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Chief, Enforcement Branch  
Water Division (WC-15J)  
United States Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

**RECEIVED**

OCT 18 2017

WATER ENFORCEMENT & COMPLIANCE  
ASSURANCE BRANCH, EPA, REGION 5

October 12, 2017  
PJ/DW

Subject: Consent Decree – Case No. 2:96-CV-96-RL-1  
Dewatering Well System, 3rd Quarter 2017  
ArcelorMittal Burns Harbor, LLC

Dear Sir:

This is to provide the quarterly monitoring report required by Paragraph 23 of the subject Consent Decree. Attachment 1 provides a summary of the nitrogen ammonia analytical results for the monthly grab samples of the combined dewatering well waters as required by Paragraph 20 of the Decree. Attachment 2 provides a table that depicts the daily total flow in thousand gallons per day, from the dewatering well system as required in Paragraph 19 of the Decree. Attachment 3 provides the "East Harbor Arm – Dewatering Monitoring Status Report" sheets for July, August, and September, 2017 compiled by our groundwater consultant, Weaver Consultants Group. These reports provide the level of groundwater in each of the piezometers and the Outfall 002 surface water staff gauge levels as required by Paragraph 9 of the Decree.

This letter will also provide Burns Harbor's statement that "all of the wells, pumps, and pipes in the Dewatering Well System are functioning", as specified in Paragraph 23 of the Decree exception for the wells that were out of service for cleaning. Due to a large number of pump failures and a decay in flowrates, Burns Harbor initiated a large project to inspect and clean the screens in each of the wells. This project is expected to be completed late October 2017. It appears that cleaning the wells has had the desired effect of increased flow.

As described in previous letters on October 23, 2000 and January 23, 2001 from D. Bley to Mr. J. Fillippini, et. al., and as witnessed by Mr. G. Golubski, water levels in Lake Michigan had been extremely low. Recently, the lake has begun to experience a rise in level. The average level for the quarter was 581.6 feet with a low of 581.2 feet.

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Burns Harbor, IN 46304  
USA



# ArcelorMittal

The Decree requires that the ground water in the piezometers along the face of the dock wall be maintained at certain depths in reference to Lake levels. These depths vary from piezometer to piezometer and were based on Burns Harbor's experience in operating the wells in 1996 and 1997. The dewatering wells continue to operate properly but several are at depths near their screens and cannot be adjusted lower. As a result, it has not been possible to maintain the depths specified in the Decree for the piezometers. In the past quarter, all of the piezometers were consistently above the level specified. There is a limit to the level that the wells can operate without damaging the screens or the pumps, and we have reached that limit.

As noted in previous quarterly reports, Mr. Bley has received your office's informal agreement that the drop in lake water level should be viewed as a "force majeure" under the Decree. The more important point is that the well system continues to operate in a manner that meets its purpose.

If there are any questions concerning this matter, please contact T. E Kirk or me at (219) 787-2712.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

R.A. Maciel  
Environmental Management Department

Attachments

cc: S. Choi, USEPA

October 12, 2017  
Ref: PJ/RA/DW

Attachment 1  
ArcelorMittal Burns Harbor, LLC  
Nitrogen Ammonia Analytical Report  
Dockwell Sampling Summary

<u>Date</u>	<u>Nitrogen Ammonia (mg/l)</u>
07/05/17	7.2
08/09/17	7.6
09/13/17	5.6

October 12, 2017

Ref.: PJ/DW

## Attachment 2

### ArcelorMittal Burns Harbor Dewatering Well Flow

<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>	<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>	<u>Date</u>	<u>Total Flow</u> <u>TGD*</u>
01-Jul-17	191	01-Aug-17	195	01-Sep-17	219
02-Jul-17	190	02-Aug-17	195	02-Sep-17	222
03-Jul-17	190	03-Aug-17	180	03-Sep-17	221
04-Jul-17	189	04-Aug-17	185	04-Sep-17	219
05-Jul-17	188	05-Aug-17	184	05-Sep-17	204
06-Jul-17	188	06-Aug-17	160	06-Sep-17	214
07-Jul-17	194	07-Aug-17	144	07-Sep-17	294
08-Jul-17	202	08-Aug-17	167	08-Sep-17	325
09-Jul-17	200	09-Aug-17	192	09-Sep-17	332
10-Jul-17	198	10-Aug-17	205	10-Sep-17	330
11-Jul-17	193	11-Aug-17	214	11-Sep-17	317
12-Jul-17	117	12-Aug-17	211	12-Sep-17	309
13-Jul-17	182	13-Aug-17	201	13-Sep-17	308
14-Jul-17	195	14-Aug-17	195	14-Sep-17	336
15-Jul-17	207	15-Aug-17	204	15-Sep-17	342
16-Jul-17	204	16-Aug-17	216	16-Sep-17	326
17-Jul-17	202	17-Aug-17	209	17-Sep-17	324
18-Jul-17	201	18-Aug-17	210	18-Sep-17	322
19-Jul-17	149	19-Aug-17	208	19-Sep-17	308
20-Jul-17	153	20-Aug-17	182	20-Sep-17	300
21-Jul-17	207	21-Aug-17	166	21-Sep-17	298
22-Jul-17	215	22-Aug-17	195	22-Sep-17	322
23-Jul-17	213	23-Aug-17	213	23-Sep-17	333
24-Jul-17	209	24-Aug-17	195	24-Sep-17	330
25-Jul-17	206	25-Aug-17	195	25-Sep-17	330
26-Jul-17	206	26-Aug-17	180	26-Sep-17	278
27-Jul-17	203	27-Aug-17	185	27-Sep-17	249
28-Jul-17	200	28-Aug-17	184	28-Sep-17	254
29-Jul-17	196	29-Aug-17	160	29-Sep-17	251
30-Jul-17	190	30-Aug-17	144	30-Sep-17	241
31-Jul-17	189	31-Aug-17	167		

\*TGD=Thousand gallons per day



ArcelorMittal

Consent Decree – Case No. 2:96-CV-96-RL-1  
Dewatering Well System Monitoring, 3rd Quarter 2017  
ArcelorMittal Burns Harbor, LLC

Attachment 3 – Dewatering Well Status Reports

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 7/7/2017 Time: 9:00 AM Barometric Pressure: 29.86 (in Hg) Temperature (F): 70  
 Staff Gauge (002) Elevation: 581.20 (Ft., MSL) Weather Conditions: Rain Wind Direction: N 4 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.17	573.15	44			45,322
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.44	572.47	42			892
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.81	574.32	46			359,324
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.70	573.58	38			147,878
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	20.05	576.11	37			60,990
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.71	589.59		31.3	565.04	
DW-7	596.39	25.0	24.50	571.89	42			167,069
P-517	596.55		7.00	589.55		29.7	566.85	
DW-8	596.21	24.5	21.36	574.85	23			49,492
P-518	596.17		6.48	589.69		30.6	565.58	
DW-9	596.16	24.5	6.94	589.22	44			19,331
P-519	596.56		7.01	589.55		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.46	573.01	35			180,364
P-520	595.93		6.44	589.49		30.35	565.58	
DW-11	595.82	24.3	16.07	579.75	34			46,084
P-521	596.19		6.96	589.23		33.40	562.79	
DW-12	595.28	26.5	13.67	581.61	20			101,614
P-522	595.17		6.12	589.05		32.9	562.25	
DW-13	594.83	27.0	26.24	568.59	30			89,680
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.26	568.57	35			20,926
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	29.20	565.42	22			22,101
P-524	591.55		x	#VALUE!		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	35.80	559.01	29			1,745

Remarks: DW-2, DW-5, DW-10, and DW-15 were adjusted down due to high initial water levels.  
 No wells were adjusted up due to low initial water levels.  
 DW-2 was offline and successfully restarted. DW-6 was offline and under repair.  
 DW-8 and DW-12 flow meters did not advance, but operated typically.  
 DW-8, DW-9, DW-11, and DW-12 flow valves were wide open.

Key: TOC=Top of Casing, north side  
 DTW=Depth to Water  
 DTB=Depth to Bottom  
 Contact: Edward Stefanek, Senior Project Manager  
 7121 Grape Road  
 Granger, IN 46530  
 (574) 271-3447 Tel.  
 (574) 271-3343 Fax.  
 estefanek@wccgrp.com





**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 7/21/2017 Time: 9:00 AM Barometric Pressure: 29.97 (in Hg) Temperature (F): 80  
 Staff Gauge (002) Elevation: 581.60 (Ft., MSL) Weather Conditions: Clear Wind Direction: N 3 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.95	572.37	35			46,111
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.50	572.41	42			1,579
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.79	574.34	44			366,837
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.71	573.57	39			150,247
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.56	576.60	35			67,234
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.34	589.96		31.3	565.04	
DW-7	596.39	25.0	24.43	571.96	40			170,138
P-517	596.55		6.58	589.97		29.7	566.85	
DW-8	596.21	24.5	21.18	575.03	22			496
P-518	596.17		6.08	590.09		30.6	565.58	
DW-9	596.16	24.5	6.62	589.54	40			19,614
P-519	596.56		6.63	589.93		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.27	573.20	35			185,509
P-520	595.93		6.15	589.78		30.35	565.58	
DW-11	595.82	24.3	15.50	580.32	35			49,437
P-521	596.19		6.70	589.49		33.40	562.79	
DW-12	595.28	26.5	15.29	579.99	20			1,336
P-522	595.17		6.00	589.17		32.9	562.25	
DW-13	594.83	27.0	26.88	587.95	30			92,957
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.43	588.40	35			21,322
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	29.02	585.60	15			22,417
P-524	591.55		x	#VALUE!		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	5.96	588.85	0			1,892

Remarks: DW-2, DW-4, and DW-5 were adjusted down due to high initial water levels.  
 DW-1, DW-7, and DW-15 were adjusted up due to low initial water levels.  
 DW-2 was offline and successfully restarted. DW-6 was offline. new pump to be installed upon completion of pending well cleaning.  
 DW-16 was offline and would not restart. DW-8, DW-9, DW-11, and DW-12 flow valves were wide open.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager  
 DTW=Depth to Water 7121 Grape Road  
 DTB=Depth to Bottom Granger, IN 46530  
 (574) 271-3447 Tel.  
 (574) 271-3343 Fax.  
 estefanek@wcgrp.com





**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 8/4/2017 Time: 8:15 AM Barometric Pressure: 29.88 (in Hg) Temperature (F): 58  
 Staff Gauge (002) Elevation: 581.70 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: N 0 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	5.58	590.74	0			46,596
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.55	572.36	35			2,091
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.70	574.43	44			373,035
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.10	574.18	42			153,003
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.72	576.44	39			74,570
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.71	589.59		31.3	565.04	
DW-7	596.39	25.0	24.94	571.45	42			173,876
P-517	596.55		6.89	589.66		29.7	566.85	
DW-8	596.21	24.5	21.14	575.07	22			1,532
P-518	596.17		6.38	589.79		30.6	565.58	
DW-9	596.16	24.5	6.88	589.28	44			19,946
P-519	596.56		6.89	589.67		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.18	573.29	36			190,894
P-520	595.93		6.32	589.61		30.35	565.58	
DW-11	595.82	24.3	15.71	580.11	37			53,017
P-521	596.19		6.85	589.34		33.40	562.79	
DW-12	595.28	26.5	15.19	580.09	24			3,852
P-522	595.17		6.10	589.07		32.9	562.25	
DW-13	594.83	27.0	26.90	567.93	35			96,346
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	x	#VALUE!	0			21,530
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	x	#VALUE!	0			22,450
P-524	591.55		2.02	589.53		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	x	#VALUE!	0			1,892

Remarks: DW-5 and DW-10 were adjusted down due to high initial water levels.  
 DW-7 was adjusted up due to low initial water levels.  
 DW-1 was offline and would not restart. DW-6 was offline, new pump to be installed when cleaning is finished.  
 DW-8, DW-9, DW-11, and DW-12 flow valves were wide open. DW-14, DW-15, and DW-16 were offline for well cleaning.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wvgrp.com



**Weaver Consultants Group**

STATUS REPORT  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: J. Slough  
Weaver Boos Consultants

Date 8/11/2017 Time: 8:00 AM Barometric Pressure: 29.99 (in Hg) Temperature (F): 70  
 Staff Gauge (002) Elevation: 581.70 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: WSW 9 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	5.93	590.39	0			46,596
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	7.63	588.28	0			2,523
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	6.99	589.14	0			375,830
P-513	592.81		3.72	589.09		x	#VALUE!	
DW-4	596.28	23.0	22.90	573.38	40			154,146
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.84	576.32	32			78,698
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.93	589.37		31.3	565.04	
DW-7	596.39	25.0	24.79	571.60	42			175,900
P-517	596.55		7.12	589.43		29.7	566.85	
DW-8	596.21	24.5	24.31	571.90	24			2,037
P-518	596.17		6.56	589.61		30.6	565.58	
DW-9	596.16	24.5	6.70	589.46	44			20,110
P-519	596.56		7.09	589.47		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	23.21	573.26	34			193,523
P-520	595.93		6.56	589.37		30.35	565.58	
DW-11	595.82	24.3	15.93	579.89	35			54,782
P-521	596.19		7.01	589.18		33.40	562.79	
DW-12	595.28	26.5	15.07	580.21	24			5,050
P-522	595.17		6.31	588.86		32.9	562.25	
DW-13	594.83	27.0	26.87	567.96	35			98,045
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	x	#VALUE!	0			21,530
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	x	#VALUE!	0			22,450
P-524	591.55		2.02	589.53		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	x	#VALUE!	0			1,892

Remarks DW-4 and DW-8 were adjusted down due to high initial water levels.  
 DW-5 and DW-7 were adjusted up due to low initial water levels.  
 DW-1, DW-2, and DW-3 were offline for well cleaning. DW-6 was offline, new pump to be installed.  
 DW-9, DW-11, and DW-12 flow valves were wide open. DW-14, DW-15, and DW-16 were offline for well cleaning.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 8/18/2017 Time: 9:00 AM Barometric Pressure: 29.85 (in Hg) Temperature (F): 73  
 Staff Gauge (002) Elevation: 581.80 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: WSW 1 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	x	#VALUE!	0			45,596
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	x	#VALUE!	0			2,523
P-512	593.16		2.70	590.46		25.0	568.21	
DW-3	596.13	22.0	6.94	589.19	0			375,839
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.62	573.66	29			155,823
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	20.11	576.05	39			81,128
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.55	589.75		31.3	565.04	
DW-7	596.39	25.0	24.57	571.82	44			177,654
P-517	596.55		6.85	589.70		29.7	566.85	
DW-8	596.21	24.5	20.55	575.66	22			2,544
P-518	596.17		6.45	589.72		30.6	565.58	
DW-9	596.16	24.5	7.00	589.16	46			20,280
P-519	596.56		7.03	589.53		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	20.35	576.12	35			196,098
P-520	595.93		6.45	589.48		30.35	565.58	
DW-11	595.82	24.3	15.54	590.28	36			56,571
P-521	596.19		7.09	589.10		33.40	562.79	
DW-12	595.28	26.5	14.83	580.45	21			6,198
P-522	595.17		6.55	588.62		32.9	562.25	
DW-13	594.83	27.0	26.90	567.93	35			99,664
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	25.80	569.03	45			22,689
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	29.50	565.12	22			23,179
P-524	591.55		2.87	588.68		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	35.80	559.01	33			1,963

Remarks DW-5, DW-7, DW-14 and DW-16 were adjusted down due to high initial water levels.  
 DW-4 and DW-10 were adjusted up due to low initial water levels.  
 DW-1, DW-2, and DW-3 were offline for well cleaning. DW-6 was offline, new pump to be installed.  
 DW-8, DW-9, DW-10, DW-11, and DW-12 flow valves were wide open.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
 Mittal Steel USA  
 Burns Harbor  
 East Harbor Arm - Dewatering Report  
 Weekly Status Report

Observations by: D. Ekkens  
 Weaver Boos Consultants

Date: 8/25/2017 Time: 8:00 AM Barometric Pressure: 30.26 (in Hg) Temperature (F): 60  
 Staff Gauge (002) Elevation: 581.80 (Ft., MSL) Weather Conditions: Clear Wind Direction: N 0 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	x	#VALUE!	0			46,596
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.34	572.57	32			2,915
P-512	593.16		2.70	590.46		25.0	568.21	
DW-3	596.13	22.0	x	#VALUE!	0			375,839
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	x	#VALUE!	x			155,823
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.83	576.33	38			84,624
P-515	592.85		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	x	#VALUE!	0			191,964
P-516	596.30		6.60	589.70		31.3	565.04	
DW-7	596.39	25.0	24.75	571.64	42			179,720
P-517	596.55		6.91	589.64		29.7	566.85	
DW-8	596.21	24.5	21.37	574.84	22			3,054
P-518	596.17		6.43	589.74		30.6	565.58	
DW-9	596.16	24.5	6.93	589.23	43			20,444
P-519	596.56		6.96	589.60		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	20.07	576.40	37			198,347
P-520	595.93		6.43	589.50		30.35	565.58	
DW-11	595.82	24.3	15.14	580.68	36			58,227
P-521	596.19		7.07	589.12		33.40	562.79	
DW-12	595.28	26.5	14.51	580.77	20			7,250
P-522	595.17		6.69	588.48		32.9	562.25	
DW-13	594.83	27.0	26.90	567.93	30			101,252
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.21	568.62	34			25,042
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	28.89	565.73	23			24,536
P-524	591.55		x	#VALUE!		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	35.87	558.94	26			2,321

Remarks DW-5 was adjusted down due to high initial water levels.  
 DW-2, DW-7 and DW-16 were adjusted up due to low initial water levels.  
 DW-1 and DW-6 were offline and undergoing repairs. DW-3 and DW-4 were offline for well cleaning.  
 DW-8, DW-9, DW-10, DW-11, and DW-12 flow valves were wide open.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wccgrp.com



**STATUS REPORT**  
 Mittal Steel USA  
 Burns Harbor  
 East Harbor Arm - Dewatering Report  
 Weekly Status Report

Observations by: D. Ekkens  
 Weaver Boos Consultants

Date: 9/1/2017 Time: 8:00 AM Barometric Pressure: 30.18 (in Hg) Temperature (F): 55  
 Staff Gauge (002) Elevation: 581.70 (Ft., MSL) Weather Conditions: Clear Wind Direction: N 2 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	595.47	24.0	20.02	576.45	37		565.58	200,597
P-520	595.93		6.45	589.48		30.35		59,825
DW-11	595.82	24.3	15.02	580.80	37		562.79	
P-521	595.19		7.13	589.06		33.40		
DW-12	595.28	26.5	13.97	581.31	23		562.25	8,276
P-522	595.17		6.77	588.40		32.9		
DW-13	594.83	27.0	26.86	567.97	32		#VALUE!	102,798
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.23	568.60	33		#VALUE!	27,258
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	28.57	566.05	24		#VALUE!	25,851
P-524	591.55		x	#VALUE!		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	6.15	588.66	0			2,426

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.20	573.12	50		568.21	46,763
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.00	572.91	36		565.58	4,191
P-512	593.16		2.70	590.46		25.0		
DW-3	596.13	22.0	6.30	589.83	38		565.24	375,839
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.60	573.68	37		565.04	157,662
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	x	#VALUE!	0		570.45	84,624
P-515	592.65		x	#VALUE!		22.2		
DW-6	596.46	24.0	x	#VALUE!	0		565.04	191,964
P-516	596.30		6.65	589.65		31.3		
DW-7	596.39	25.0	24.58	571.81	44		566.85	181,815
P-517	596.55		6.89	589.66		29.7		
DW-8	596.21	24.5	21.30	574.91	21		565.58	3,582
P-518	596.17		6.43	589.74		30.6		
DW-9	596.16	24.5	6.91	589.25	46		565.24	20,605
P-519	596.56		6.98	589.58		31.3		

Remarks DW-1 was adjusted down due to high initial water levels.  
 DW-2 and DW-4 were adjusted up due to low initial water levels.  
 DW-3 appeared to be online, but wasn't moving any water. DW-5 and DW-6 were offline for well cleaning.  
 DW-8, DW-9, DW-10, DW-11, and DW-12 flow valves were wide open.  
 DW-16 was offline and undergoing repairs.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wcgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 9/8/2017 Time: 9:00 AM Barometric Pressure: 30.20 (in Hg) Temperature (F): 60  
 Staff Gauge (002) Elevation: 581.70 (Ft., MSL) Weather Conditions: Cloudy Wind Direction: E 9 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	20.29	576.03	39			48,397
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.90	572.01	42			5,288
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.22	574.91	44			376,475
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.40	573.88	40			161,491
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	20.34	575.82	30			87,263
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	23.21	573.25	38			192,563
P-516	596.30		7.52	588.78		31.3	565.04	
DW-7	596.39	25.0	x	#VALUE!	0			181,815
P-517	596.55		7.16	589.39		29.7	566.85	
DW-8	596.21	24.5	x	#VALUE!	0			3,582
P-518	596.17		6.64	589.53		30.6	565.58	
DW-9	596.16	24.5	7.05	589.11	47			20,759
P-519	596.56		7.14	589.42		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	18.34	578.13	40			202,819
P-520	595.93		6.56	589.37		30.35	565.58	
DW-11	595.82	24.3	14.26	581.56	38			61,349
P-521	595.19		7.18	589.01		33.40	562.79	
DW-12	595.28	26.5	13.11	582.17	25			9,265
P-522	595.17		6.82	588.35		32.9	562.25	
DW-13	594.83	27.0	26.56	588.27	35			104,306
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.21	588.62	35			29,473
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	28.66	585.96	24			27,168
P-524	591.55		3.34	588.21		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	6.28	588.53	0			2,426

Remarks  
 DW-2, DW-6 and DW-15 were adjusted down due to high initial water levels.  
 DW-1, DW-4 and DW-5 were adjusted up due to low initial water levels.  
 DW-7 and DW-8 were offline for well cleaning.  
 DW-9, DW-10, DW-11, and DW-12 flow valves were wide open.  
 DW-1 water level adjusted to approx. 20 ft due to recent repairs inadvertently shortening pump pipe length. DW-16 was offline and could not be restarted.

Key: TOC=Top of Casing, north side  
 DTW=Depth to Water  
 DTB=Depth to Bottom  
 Contact: Edward Stefanek, Senior Project Manager  
 7121 Grape Road  
 Granger, IN 46530  
 (574) 271-3447 Tel.  
 (574) 271-3343 Fax.  
 estefanek@wccgrp.com

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 9/15/2017 Time: 8:45 AM Barometric Pressure: 30.20 (in Hg) Temperature (F): 68  
 Staff Gauge (002) Elevation: 581.30 (Ft., MSL) Weather Conditions: Clear Wind Direction: S 9 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	x	#VALUE!	x			202,819
P-520	595.93		6.76	589.17		30.35	565.58	
DW-11	595.82	24.3	14.78	581.04	36			62,716
P-521	596.19		7.32	588.87		33.40	562.79	
DW-12	595.28	26.5	13.05	582.23	24			10,139
P-522	595.17		6.91	588.26		32.9	562.25	
DW-13	594.83	27.0	26.05	568.78	35			105,764
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	26.21	568.62	35			31,666
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	29.26	565.36	21			28,620
P-524	591.55		3.47	588.08		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	x	#VALUE!	x			2,426

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	20.30	576.02	35			49,799
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.10	572.81	34			6,391
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.20	574.93	42			381,169
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.12	574.16	45			164,796
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	20.11	576.05	36			90,560
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	23.91	572.55	37			196,900
P-516	596.30		9.11	587.19		31.3	565.04	
DW-7	596.39	25.0	24.15	572.24	48			183,327
P-517	596.55		8.78	587.77		29.7	566.85	
DW-8	596.21	24.5	19.80	576.41	23			4,324
P-518	596.17		7.74	588.43		30.6	565.58	
DW-9	596.16	24.5	x	#VALUE!	x			20,759
P-519	596.56		7.79	588.77		31.3	565.24	

Remarks DW-7 was adjusted down due to high initial water levels.  
 DW-5 and DW-15 were adjusted up due to low initial water levels.  
 DW-9 and DW-10 were offline for well cleaning. DW-16 was offline for repairs.  
 DW-11 and DW-12 flow valves were wide open. DW-1 and DW-8 were breaking suction approx. 3 ft above screen.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wvgrp.com



**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 9/22/2017 Time: 9:30 AM Barometric Pressure: 30.08 (in Hg) Temperature (F): 84  
 Staff Gauge (002) Elevation: 561.30 (Ft., MSL) Weather Conditions: Clear Wind Direction: SSW 3 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	20.23	576.09	45			51,284
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.40	572.51	40			6,866
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.90	574.23	42			386,175
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.00	574.28	45			167,963
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.62	576.54	38			91,183
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	23.35	573.11	36			200,992
P-516	596.30		9.38	586.92		31.3	565.04	
DW-7	596.39	25.0	24.11	572.28	44			187,634
P-517	596.55		9.10	587.45		29.7	566.85	
DW-8	596.21	24.5	20.34	575.87	24			6,639
P-518	596.17		7.81	588.36		30.6	565.58	
DW-9	596.16	24.5	7.85	588.31	x			20,818
P-519	596.56		7.58	588.98		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	7.28	589.19	25			203,663
P-520	595.93		6.55	589.38		30.35	565.58	
DW-11	595.82	24.3	x	#VALUE!	0			62,716
P-521	596.19		6.85	589.34		33.40	562.79	
DW-12	595.28	26.5	x	#VALUE!	0			10,139
P-522	595.17		6.48	588.69		32.9	562.25	
DW-13	594.83	27.0	26.45	588.38	38			107,234
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	25.71	589.12	40			33,616
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	28.50	566.12	21			30,091
P-524	591.55		x	#VALUE!		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	x	#VALUE!	x			2,426

Remarks  
 DW-7 was adjusted down due to high initial water levels.  
 DW-5 and DW-15 were adjusted up due to low initial water levels.  
 DW-9 and DW-10 were offline for well cleaning. DW-16 was offline for repairs.  
 DW-11 and DW-12 flow valves were wide open. DW-1 and DW-8 were breaking suction approx. 3 ft above screen.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wvgrp.com



**Weaver  
Consultants  
Group**

**STATUS REPORT**  
Mittal Steel USA  
Burns Harbor  
East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Boos Consultants

Date: 9/29/2017 Time: 8:45 AM Barometric Pressure: 30.33 (in Hg) Temperature (F): 47  
 Staff Gauge (002) Elevation: 581.50 (Ft., MSL) Weather Conditions: Clear Wind Direction: NE 5 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	x	#VALUE!	0			51,284
P-511	592.29		filled	#VALUE!		x	#VALUE!	
DW-2	595.91	24.0	23.51	572.40	38			7,773
P-512	593.16		x	#VALUE!		25.0	568.21	
DW-3	596.13	22.0	21.26	574.87	41			391,068
P-513	592.81		x	#VALUE!		x	#VALUE!	
DW-4	596.28	23.0	22.74	573.54	45			171,067
P-514	592.80		x	#VALUE!		x	#VALUE!	
DW-5	596.16	21.0	20.00	576.16	36			93,845
P-515	592.65		x	#VALUE!		22.2	570.45	
DW-6	596.46	24.0	23.43	573.03	38			204,954
P-516	596.30		10.11	586.19		31.3	565.04	
DW-7	596.39	25.0	24.27	572.12	42			191,961
P-517	596.55		9.28	587.27		29.7	566.85	
DW-8	596.21	24.5	8.28	587.93	0			8,240
P-518	596.17		7.87	588.30		30.6	565.58	
DW-9	596.16	24.5	8.07	588.09	8			20,968
P-519	596.56		7.84	588.72		31.3	565.24	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-10	596.47	24.0	6.98	589.49	25			203,756
P-520	595.93		6.77	589.16		30.35	565.58	
DW-11	595.82	24.3	x	#VALUE!	0			62,716
P-521	596.19		7.07	589.12		33.40	562.79	
DW-12	595.28	26.5	12.17	583.11	0			10,614
P-522	595.17		6.51	588.66		32.9	562.25	
DW-13	594.83	27.0	26.85	567.98	38			108,703
P-523	592.04		Destroyed	#VALUE!		x	#VALUE!	
DW-14	594.83	26.5	x	#VALUE!	0			33,616
P-507	591.38		Destroyed	#VALUE!		x	#VALUE!	
DW-15	594.62	29.5	x	#VALUE!	0			30,091
P-524	591.55		3.13	588.42		x	#VALUE!	
P-508	591.37		Destroyed	#VALUE!		x	#VALUE!	
DW-16	594.81	36.0	x	#VALUE!	x			2,427

Remarks	DW-4 was adjusted up due to low initial water levels.
	DW-1 and DW-8 were offline for repairs.
	DW-11, DW-12, DW-14, DW-15 and DW-16 were offline for well cleaning.
	DW-10 was offline, unable to restart.

Key: TOC=Top of Casing, north side Contact: Edward Stefanek, Senior Project Manager (574) 271-3447 Tel.  
 DTW=Depth to Water 7121 Grape Road (574) 271-3343 Fax.  
 DTB=Depth to Bottom Granger, IN 46530 estefanek@wvgrp.com